



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: BUCALA, R.J., et al.

Serial No.: 08/243,342

Group Art Unit: 1804

Filed: May 16, 1994

Examiner: To Be Assigned

For: INHIBITION OF MIGRATION
INHIBITORY FACTOR IN THE
TREATMENT OF DISEASES
INVOLVING CYTOKINE-
MEDIATED TOXICITY

Attorney Docket No.: 7815-008

REC

SEP 28 1995

GROUP 1804

INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. § 1.56 AND § 1.97

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

In accordance with Applicants' duty of disclosure imposed by 37 C.F.R. § 1.56 and § 1.97, Attorneys for Applicants hereby invite the Examiner's attention to the references listed on the accompanying form, copies of the references are submitted herewith.

For the convenience of the Examiner, the references are divided into the following subgroups and arranged in chronological order.

List of References

I. References related to use of cytokines and steroids to treat inflammatory responses:

Sprung et al., 1984, N. Engl. J. Med. 317: 1137-1141.

Suzuki et al., 1986, Am. J. Physiol. 250: E470-E474.

Bone et al., 1987, N. Engl. J. Med. 311: 1137-1141.

EXPRESS MAIL CERTIFICATION

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I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. 1.10 on the date indicated above and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

MICHAEL VIGUIE

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PENY2-387671.1

Smith, 1988, Science 240: 1169-1176.
 Sternberg et al., 1989, Proc. Natl. Acad. Sci. USA 86:
 2374-2378.
 Zuckerman et al., 1989, Eur. J. Immunol. 19: 301-305.
 Dinarello et al., 1991, J. Infect. Disease 163: 1177-
 1184.
 Edwards III et al., 1991, Endocrinol. 128: 989-996.
 Edwards III et al., 1991, Proc. Natl. Acad. Sci. USA 88:
 2274-2277.
 Silverstein et al., 1991, J. Exp. Med. 173: 357-365.
 Vassalli et al., 1992, Ann. Rev. Immunol. 10: 411-452.
 Sigal and Dumont, 1992, Ann. Rev. Immunol. 10: 519-560.

II. References related to the identification of Migration Inhibitory Factor (MIF):

Bloom and Bennett, 1966, Science 158: 80-82.
 David et al., 1966, Proc. Natl. Acad. Sci. USA 65: 72-77.
 Nathan et al., 1971, J. Exp. Medicine 133: 1356-1376.
 Nathan et al., 1973, J. Exp. Medicine 137: 275-288.
 Weiser et al., 1981, J. Immunol. 126: 1958-1962.
 Liu et al., 1986, J Immunol. 137: 448-455.
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 Pozzi et al., 1992, Cellular Immunol. 145: 372-379.
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 8049-8052.
 Bernhagen et al., 1993, J. Cell. Biochem. Supplement 17B,
 Abstract E306.
 Bernhagen et al., 1993, Nature 365: 756-759.
 Cuhna et al., 1993, J. Immunol. 150: 1908-1912.

III. References related to the biodistribution of MIF:

Lanahan et al., 1992, Mol. Cell. Biol. 12: 3919-3929.
 Blocki et al., 1992, Nature 360: 269.
 Wistow et al., 1993, Proc. Natl. Acad. Sci. USA 90:
 1272-1275.

- IV. References related to diagnostic applications of MIF:
Mullis, 1987, U.S. Patent No. 4,683,202.
Kohler and Milstein, 1975, Nature 256: 495-497.
Peck, 1983, J. Immunol. Methods 64: 179-187.
Morrison et al., 1984, Proc. Natl. Acad. Sci. USA 81:
6851-6855.
Beutler et al., 1985, J Immunol. 135: 3972.
Beutler et al., 1985, J Exp. Medicine 161: 984.
Thomas and Capecchi, 1987, Cell 51: 503-512.
Ding et al., 1988, J. Immunol. 141: 2407.
Michie et al., 1988, New Eng. J Medicine 318: 1481.
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Buhler et al., 1990, Biotechnology 8: 140-143.
Uhlmann et al., 1990, Chemical Rev. 90: 543-584.
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90: 10056-10060.
- V. References related to MIF binding its receptor:
Kaiser and Kezdy, 1983, Proc. Natl. Acad. Sci. USA 80:
1137.
Erne et al., 1985, Biochemistry 24: 4263.
Holmes et al., 1991, Science 253: 1278-1280.
Lam et al., 1991, Nature 354: 82-84.
Fry et al., 1992, Biopolymers 32: 649.

Identification of the foregoing references is not to be construed as an admission of Applicant or Attorneys for Applicant that such references are available as prior art against the subjects' application. The reference citations for each of the references referred to above, are listed on the accompanying PTO form 1449 entitled "List of References Cited".

Applicant respectfully requests that the Examiner review the foregoing references. Applicant requests further that all of the reference documents be made of record in the file

• history of the above-identified application by completion and return to Applicant a copy of the form PTO-1449.

Since, pursuant to 37 C.F.R. §1.97 (b), this Information Disclosure Statement is filed prior to the mailing date of the first Office Action on the merits, it is estimated that no fee is required for filing. In the event that a fee is required, please charge the required fee to Pennie & Edmonds Deposit Account No. 16-1150.

Respectfully submitted,

by [Signature] REG NO
31,956

Date August 28, 1995

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Enclosure